

WHAT IS CLAIMED IS:

- 1 1. A method for building an index, comprising:
2 pipelining global analysis computations and index creation, wherein the global
3 analysis computations share intermediate results.
- 1 2. The method of claim 1, wherein index creation further comprises:
2 creating an index using lagging global analysis information.
- 1 3. The method of claim 1, further comprising:
2 creating a delta index for documents for which no global analysis computations
3 have been performed.
- 1 4. The method of claim 3, wherein the creation of the delta index allows new
2 documents to be indexed and retrieved before global analysis computations for the new
3 documents are performed.
- 1 5. The method of claim 3, further comprising:
2 receiving a query requesting retrieval of one or more documents; and
3 accessing the index and the delta index to retrieve one or more documents.
- 1 6. The method of claim 3, wherein creating the delta index further
2 comprises:
3 merging a delta store and new documents.
- 1 7. The method of claim 3, further comprising:
2 merging the delta index with the index to create a new version of the index.
- 1 8. The method of claim 1, further comprising:
2 performing the global analysis computations using lagging per-document analysis
3 information.

- 1 9. The method of claim 1, wherein index creation further comprises:
2 merging a store and a delta store.
- 1 10. The method of claim 1, wherein the global analysis computations are
2 performed in parallel with creation of a new delta index.
- 1 11. An article of manufacture including a program for building an index,
2 wherein the program causes operations to be performed, the operations comprising:
3 pipelining global analysis computations and index creation, wherein the global
4 analysis computations share intermediate results.
- 1 12. The article of manufacture of claim 11, wherein the operations for index
2 creation further comprise:
3 creating an index using lagging global analysis information.
- 1 13. The article of manufacture of claim 11, wherein the operations further
2 comprise:
3 creating a delta index for documents for which no global analysis computations
4 have been performed.
- 1 14. The article of manufacture of claim 13, wherein the creation of the delta
2 index allows new documents to be indexed and retrieved before global analysis
3 computations for the new documents are performed.
- 1 15. The article of manufacture of claim 13, wherein the operations further
2 comprise:
3 receiving a query requesting retrieval of one or more documents; and
4 accessing the index and the delta index to retrieve one or more documents.

1 16. The article of manufacture of claim 13, wherein the operations for creating
2 the delta index further comprise:
3 merging a delta store and new documents.

1 17. The article of manufacture of claim 13, wherein the operations further
2 comprise:
3 merging the delta index with the index to create a new version of the index.

1 18. The article of manufacture of claim 11, wherein the operations further
2 comprise:
3 performing the global analysis computations using lagging per-document analysis
4 information.

1 19. The article of manufacture of claim 11, wherein index creation further
2 comprises:
3 merging a store and a delta store.

1 20. The article of manufacture of claim 11, wherein the global analysis
2 computations are performed in parallel with creation of a new delta index.

1 21. A computer system including logic for building an index, comprising:
2 pipelining global analysis computations and index creation, wherein the global
3 analysis computations share intermediate results.

1 22. The computer system of claim 21, wherein the logic for index creation
2 further comprises:
3 creating an index using lagging global analysis information.

1 23. The computer system of claim 21, wherein the logic further comprises:

2 creating a delta index for documents for which no global analysis computations
3 have been performed.

1 24. The computer system of claim 23, wherein the creation of the delta index
2 allows new documents to be indexed and retrieved before global analysis computations
3 for the new documents are performed.

1 25. The computer system of claim 23, wherein the logic further comprises:
2 receiving a query requesting retrieval of one or more documents; and
3 accessing the index and the delta index to retrieve one or more documents.

1 26. The computer system of claim 23, wherein the logic for creating the delta
2 index further comprises:
3 merging a delta store and new documents.

1 27. The computer system of claim 23, wherein the logic further comprises:
2 merging the delta index with the index to create a new version of the index.

1 28. The computer system of claim 21, wherein the logic further comprises:
2 performing the global analysis computations using lagging per-document analysis
3 information.

1 29. The computer system of claim 21, wherein the logic for index creation
2 further comprises:
3 merging a store and a delta store.

1 30. The computer system of claim 21, wherein the global analysis
2 computations are performed in parallel with creation of a new delta index.